



DIRECTORATE OF
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Imagery Analysis Service Notes

22 March 1968

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This publication highlights significant or timely intelligence items derived from photography.

The interpretations in this publication represent preliminary views which are subject to modification in the light of further information and more complete analysis.

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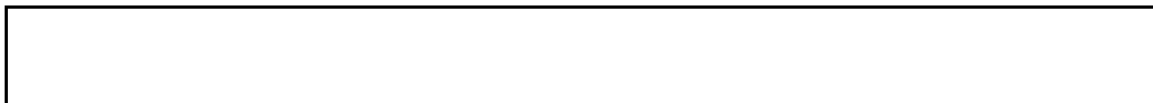
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USSR

Status of Interferometers at Single Silo ICBM Complexes

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Following the discovery in [] of six abandoned L-shaped interferometers at five Type III-C ICBM complexes, a fact suggesting modification of the guidance system of some SS-9 groups,* IAS has reviewed the status of all L-shaped interferometers at Type III-C (SS-9) and III-D (SS-11) complexes. The results of this review are summarized in the following table.

<u>Status</u>	<u>Type III-C</u>	<u>Type III-D</u>
Externally Complete	11	3
Abandoned During Construction	6	6
Abandoned Fence Line	2	3
Probably Abandoned	1	-
Possibly Abandoned	1	-
Probably Intended, but Abandoned	-	1
Possibly Intended, but Abandoned	1	-
Status Undetermined	2	2
Control Site Not Identified	3	2
None Intended	5	10

It is clear that the Soviets initially intended to deploy an L-shaped interferometer at the control sites of all III-C launch groups and most of the III-D groups at Tatishchevo, Olovyanaya, and Yedrovo. There is no evidence that interferometers were planned at the seven other III-D complexes. At the 35 control sites where they were intended, only 14 interferometers were actually completed, and none of those still under construction after [] were brought to completion.

This photographic record strongly suggests that whatever role these interferometers were intended to play, they have probably been abandoned. In our opinion, this decision was probably made sometime in the first quarter [] It should be noted that photography will not indicate one way or the other if a completed interferometer is operational.

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*IAS Notes, 30 June 1967

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CHINA

Decline in Production Activity at An-shan Iron and Steel Plant

25X1D A comparison of [] photography shows a
25X1D sharp decline in visible production activity at the An-shan Iron and Steel
Plant between []. Located in southern Manchuria at 41-08N
122-59E, the An-shan plant has long been thought to produce nearly half of
China's steel. The evidence from photography tends to confirm information
coming out of China, as well as Japanese and Soviet news reports, that
"armed clashes" and coal shortages caused substantial cutbacks in production
at An-shan in the summer and fall of 1967.

The plant appeared highly active on [] with steam and smoke
emanating from most of its facilities. On [] there was only slightly
less activity, with smoke or steam visible at all but two rolling mills
and the limestone preparation facility. However, on [] when the
temperature was below zero and steam or vapor would have easily been observed,
very little evidence of activity was seen. Only one open-hearth furnace
stack, one blast furnace stack, and the stacks and cooling towers serving
the thermal power plant were emitting smoke or vapors. In addition, the
coal storage yard at the by-products coke plant contained only one small
pile of coal, whereas this yard had been nearly full on []

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CHINA

Operational Level of Cement Plants Declines []

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25X1D IAS has recently completed a [] photographic analysis of the Chinese
25X1D cement industry.* Comparing this with a similar study of the industry in
[] A/PIR 75089), we find a slight decline in the level of operations
as measured by the number of rotary kilns seen operating. On the
other hand, the number of known cement plants increased from 39 to 43
[] with the completion of two new plants and the identification of
two previously unreported ones.

The following table compares the [] operational levels.

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Cement Plants	41	43
Rotary Kilns	89	96
Rotary Kilns Operating	65	57

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*DDI/IAR 85039, soon to be published

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1. IAR 81012, TCS 6508/68, Solid Rocket Motor Test Facilities, Leningrad, USSR (TOP SECRET RUFF).

2. IAR 83062, TCS 6784/68, Gorkiy Shipyard 112, Gorkiy, USSR, KH Missions
(TOP SECRET RUFF).

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4. IAR 87005, TCS 6561/68, Developments Relating to the Chinese Railroad System, September - December 1967 (TOP SECRET RUFF).

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